Brookline Fiscal Advisory Committee

May 2, 2019

I. S&P's Top 10 Management Characteristics

II. Town-School Partnership

III. Brookline Financial Forecast Model and Credit Ratios

Brookline Management Characteristic Scores

S&P's Top 10 Management Characteristics of Highly Rated State and Local Borrowers

| Focus on Structural Balance: Recurring Revenues Match Recurring Expenditures | The use of realistic assumptions in projecting revenues and expenditures. |
|---|---|
| Strong Liquidity Management | Minimizes the risk of having insufficient resources to meet debt obligations. |
| Regular Economic/Revenue Updates to Identify Shortfalls Early | Allows for timely and effective budget balancing responses. Distinguish between revenue trends and aberrations. |
| An Established Rainy Day/Budget Stabilization Reserve | Reserves provide financial flexibility to react to budget shortfalls and unplanned circumstances in a timely manner. |
| Prioritized Spending Plans and Established contingency plans for operating budgets | Provides risk management of changing economic conditions, intergovernmental funding shifts, budget imbalances, and emerging risks. |
| Strong Long-Term and Contingent Liability Management | Pensions, postemployment benefits, and other contingent liabilities of both the general and enterprise funds which can cause significant financial stress. |
| Multi-Year Financial Plan that Considers the Affordability of Actions or Plans Pre-Budget | Having detailed projections and information on costs associated with various policy decisions provides transparency to the budgeting process. |
| Formal Debt Management Policy to Evaluate Future Debt Profile | Debt affordability guidelines and models enhance the capital budget planning process and related policy decisions. |
| Capital Planning Process | A comprehensive assessment of capital and infrastructure requirements, including deferred maintenance, better positions the town to execute a cost-effective management strategy. |
| Well-Defined and Coordinated Economic Development Strategy | Development initiatives and growth prospects affect future revenue-generating capacity. |

Brookline Metrics Scores

For each category, score Brookline past (10 years ago), present, and future (given current trajectory) from 0 (worst) to 10 (best).

| | | Past | Present | Future |
|------------------------|--|------|---------|--------|
| Social/Quality of Life | Including: housing affordability, parking availability, traffic/congestion, Park/library usage. crime rate, arrest rate, EMS response time | | | |
| Economic | Including: Unemployment rate, credit rating, Area Median Income, diversified revenue sources | | | |
| Education | Including: Standardized test scores, student-teacher ratio, spending per pupil, average educational attainment | | | |
| Diversity | Including: economic diversity, racial diversity, student diversity, METCO participation, age diversity | | | |
| Environmental | Including: Emissions, Carbon usage, energy efficiency, preparedness for Climate Change | | | |

I. S&P's Top 10 Management Characteristics

II. Town-School Partnership

III. Brookline Financial Forecast Model and Credit Ratios

TOWN/SCHOOL PARTNERSHIP-SUMMARY OF KEY POINTS

- Established Via Two-Page Memorandum of Understanding Executed in 1995
 - Formulated to provide greater budgeting clarity and equity and to minimize conflict
 - TM only has bottom-line authority over School budget
- Equally allocates marginal increases/deficits in Town Revenues
 - Marginal=Revenues after deducting fixed costs
 - Funds from Proposition 2½ overrides allocated as voted to Town/Schools
- Created seven categories of fixed costs (some with sub-components)
 - Enterprise operations
 - SPED tuitions plus ½ of other SPED costs
 - Growth in enrollments (formula based*)
 - Reserve funds
 - Programs generating revenue
 - Debt service
 - Tax funded capital

TOWN/SCHOOL PARTNERSHIP-SUMMARY OF KEY POINTS

- Other shared costs in proportion to actual experience each year
- Requires Town and Schools to each be responsible for absorbing all respective personnel costs
- Adjustments contemplated for unanticipated state mandates, and extraordinary circumstances

TOWN OF BROOKLINE FY2020 PROGRAM BUDGET

BUDGET MESSAGE

February 12, 2019

Honorable Members of the Select Board and Members of the Advisory Committee:

I am pleased to submit the Fiscal Year (FY) 2020 annual Financial Plan, including the Budget and the Capital Improvement Plan (CIP) for your consideration. The FY 2020 Budget balances \$335,352,327 in revenues and expenses, including enterprises and other self-supporting operations. This represents an increase of 4.6% over FY 2019.

| | FY 2019 | <u>FY 2020</u> | \$\$\$ CHANGE | % CHANGE |
|------------------------|-------------|----------------|---------------|----------|
| REVENUES | | | | |
| Property Tax | 224,490,479 | 239,499,109 | 15,008,630 | 6.7% |
| Local Receipts | 29,778,588 | 29,943,370 | 164,783 | 0.6% |
| State Aid | 22,112,759 | 22,307,826 | 195,067 | 0.9% |
| Free Cash | 8,516,286 | 9,081,257 | 564,971 | 6.6% |
| Other Available Funds | 4,872,678 | 3,188,731 | (1,683,948) | -34.6% |
| Enterprises (net) | 30,754,331 | 31,332,034 | 577,703 | 1.9% |
| TOTAL REVENUES | 320,525,121 | 335,352,327 | 14,827,206 | 4.6% |
| | | | | |
| EXPENDITURES | | | | |
| Municipal Departments | 76,244,277 | 78,134,452 | 1,890,174 | 2.5% |
| School Department | 110,658,255 | 117,235,691 | 6,577,436 | 5.9% |
| Non-Departmental | 82,991,348 | 90,117,382 | 7,126,034 | 8.6% |
| Special Appropriations | 10,979,868 | 9,788,054 | (1,191,814) | -10.9% |
| Enterprises (net) | 30,754,331 | 31,332,034 | 577,703 | 1.9% |
| Non-Appropriated | 8,897,045 | 8,744,711 | (152,334) | -1.7% |
| TOTAL EXPENDITURES | 320,525,121 | 335,352,327 | 14,827,206 | 4.6% |

Note increases in municipal and school line items.

| BROOKLINE FY2020 PROGRAM BUDGET | | | - |
|---------------------------------|--------------------------|-----------------------|-------------------|
| То | wn School Partnership Bu | dget Allocation Formu | ıla |
| | FY2020 Changes | Town Departments | School Department |
| Total Revenue | \$14,249,502 | \$7,232,777 | \$7,016,725 |
| Fixed Cost Sharing | (\$4,819,195) | (\$2,407,623) | (\$2,411,572) |
| Allocated Fixed Costs | (\$3,678,204) | (\$2,067,191) | (\$1,581,693) |
| Formula Adjustment | - | - | \$3,553,976 |
| | | | |

\$5,752,103

4.9%

BUDGET MESSAGE

\$6,577,436

5.9%

\$2,757,963

2.5%

TOWN OF

NET BUDGET ALLOCATION

PERCENTAGE INCREASE

OVER FY 2019

The Town School Partnership allocation formula makes certain judgments and assumptions that represent fiscal policies of the Town. It is expected that this formula will be part of a larger fiscal policy review initiated by the newly appointed Fiscal Policy Advisory Committee (FPAC). The FPAC is charged with evaluating the long term fiscal condition of the Town and making recommendations to address the "structural gap" that persists between normal revenue growth and expenditure demand. This is never more important as the Town commences a sustained and expensive period of capital expansion and investment in its school building plant. The long-term debt associated with these projects will significantly constrain the Town's ability to fund other capital needs and will have implications on the cost to operate and maintain these facilities. The ability to identify some funding sources or capacity other than the property tax seems essential for the long term fiscal health of the Town and its residents.

| FY2020 TOWN/SCHOOL ALLOCATIONS - CHANGES | | | 17-Apr-19 |
|--|---------------|--------------|--------------------------|
| | TOTAL | <u>TOWN</u> | <u>SCHOOL</u> |
| PROPERTY TAXES | \$14,468,272 | \$7,234,136 | \$7,234,136 |
| LOCAL RECEIPTS | \$164,783 | \$82,391 | \$82,391 |
| STATE AID | \$195,067 | \$97,533 | \$97,533 |
| FREE CASH | \$564,971 | \$282,486 | \$282,486 |
| OTHER AVAILABLE FUNDS* | (\$1,683,948) | (\$733,948) | (\$950,000) |
| TOTAL REVENUE | \$13,709,144 | \$6,962,598 | \$6,746,546 |
| XED COSTS | | | , , |
| GOLF ENTERPRISE FUND OVERHEAD | \$92,670 | \$92,670 | \$0 |
| REC REVOLVING FUND OVERHEAD | \$119,478 | \$119,478 | \$0 |
| WATER & SEWER OVERHEAD | \$3,904 | \$3,904 | \$0 |
| REFUSE | \$285,960 | \$142,980 | \$142,980 |
| RESERVE FUND (0.75% of Prior Yr Net Rev) | \$106,468 | \$53,234 | \$53,234 |
| DEBT (non Enterprise Fund) | \$3,303,467 | \$1,651,734 | \$1,651,734 |
| | | | |
| CIP / SPECIAL APPROPRIATIONS / FREE CASH-SUPPORTED | (\$1,362,456) | (\$681,228) | (\$681,228) \$180,000 |
| SPEC ED TUITION | \$360,000 | \$180,000 | |
| OTHER SPEC ED | \$440,000 | \$110,000 | \$330,000 |
| ENROLLMENT GROWTH | \$1,081,680 | \$540,840 | \$540,840 |
| NON-APPROP | (\$152,334) | (\$76,167) | (\$76,167) |
| TOTAL FIXED COSTS | \$4,278,837 | \$2,137,444 | \$2,141,393 |
| LLOCATED FIXED COSTS | | | |
| PERSONNEL BENEFITS | \$3,049,677 | \$1,870,245 | \$1,150,112 |
| UTILITIES & MISC BLDG EXP's | \$319,562 | \$58,856 | \$260,706 |
| INFO TECHNOLOGY / FINANCE APPLICATIONS | \$11,905 | \$5,953 | \$5,953 |
| PAYROLL DIVISION | \$1,683 | \$842 | \$842 |
| UNCLASSIFIED (AUDIT & GENERAL INSURANCE) | \$92,122 | \$46,061 | \$46,061 |
| GENERAL SERVICES (POSTAGE & TELEPHONES) | (\$1,000) | (\$500) | (\$500) |
| TOTAL ALLOCATED FIXED COSTS | \$3,473,949 | \$1,981,456 | \$1,463,173 |
| OTAL COST INCREASE | \$7,752,786 | \$4,118,900 | \$3,604,566 |
| ET SURPLUS BEFORE COLL BARG & STEPS | \$5,956,359 | \$2.042.600 | \$3,141,980 |
| CHOOL ALLOCATION | \$3,930,339 | \$2,043,090 | \$3,1 T 1,900 |
| | | | \$3,141,980 |
| School's Share of Net Surplus | | \$ (800,000) | \$800,000 |
| SPED Costs | | \$ (693,600) | \$693,600 |
| Enrollment Growth | | \$ (093,000) | |
| School Bus Program | | | (\$37,500) |
| FY19 base allocation - after STM funds used for deficit goes back to | | h (100 100) | 1 |
| base | | \$ (428,123) | \$428,123 |
| | | | \$ 1,669,753 |
| Override | | \$ 921.975 | + -,, |

*Other available funds includes enterprise items netted out in expenses. Other items vary. For example, funds were reduced by special allocations from the parking meter receipts fund.

Most items split 50/50

See Personnel detai next slide

See SPED costs from lines 9 and 10.
Enrollment growth formula not known

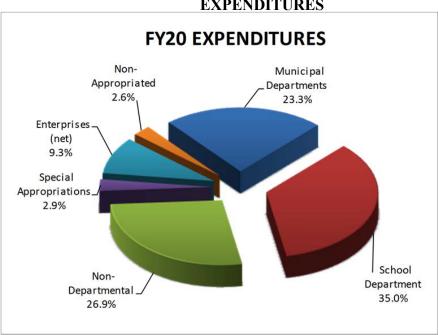
| PERSONNEL BENEFITS | TOWN % | SCHOOL % | TOTAL INC | TOWN | SCHOOL |
|--|---------------------|----------|------------------------------------|----------------------------------|------------------------------------|
| PENSIONS - non-Free Cash | 74.0% | 26.0% | \$1,740,688 | \$990,722 | \$749,946 |
| GROUP HEALTH | 43.5% | 56.6% | \$761,642 | \$561,605 | \$182,542 |
| HEALTH REIMBURSEMENT ACCOUNT (HRA) | 43.5% | 56.5% | \$0 | \$0 | \$0 |
| OPEB's (RETIREE HEA INS) - non-Free Cash | 43.5% | 56.5% | \$211,515 | \$125,214 | \$86,301 |
| EMPLOYEE ASSISTANCE | 40.0% | 60.0% | (\$28,000) | (\$11,200) | (\$16,800) |
| GROUP LIFE | 100.0% | 0.0% | \$0 | \$0 | \$0 |
| DISABILITY INSURANCE | 100.0% | 0.0% | \$0 | \$0 | \$0 |
| WORKERS COMP - non-Free Cash | 95.0% | 5.0% | \$400,000 | \$380,000 | \$20,000 |
| PUBLIC SAFETY IOD MEDICAL EXPENSES - non-Free Cash | 100.0% | 0.0% | (\$200,000) | (\$200,000) | \$0 |
| UNEMPLOYMENT - non-Free Cash | 47.5% | 52.5% | \$0 | \$14,463 | (\$14,463) |
| MEDICAL DISAB. | 100.0% | 0.0% | \$0 | \$0 | \$0 |
| MEDICARE PAYROLL TAX | 36.6% | 63.4% | \$163,852 | \$9,440 | \$142,587 |
| | TOTAL INCREASE Y-Y | | \$3,049,677 | \$1,870,245 | \$1,150,112 |
| | | | | | |
| FY20 PERSONNEL BENEFITS | TOWN % | SCHOOL % | TOTAL | TOWN | SCHOOL |
| PENSIONS - non-Free Cash | 74.0% | 26.0% | \$24,615,433 | \$18,215,420 | \$6,400,013 |
| GROUP HEALTH | 43.5% | 56.6% | \$31,507,881 | \$13,694,377 | \$17,813,504 |
| HEALTH REIMBURSEMENT ACCOUNT (HRA) | 43.5% | 56.5% | | | |
| OPEB's (RETIREE HEA INS) - non-Free Cash | 43.5% | 56.5% | \$4,181,980 | \$1,818,876 | \$2,363,103 |
| EMPLOYEE ASSISTANCE | 40.0% | 60.0% | \$0 | \$0 | \$0 |
| GROUP LIFE | 100.0% | 0.0% | \$145,000 | \$145,000 | \$0 |
| DISABILITY INSURANCE | 100.0% | 0.0% | \$46,000 | \$46,000 | \$0 |
| WORKERS COMP - non-Free Cash | 95.0% | 5.0% | \$1,850,000 | \$1,757,500 | \$92,500 |
| PUBLIC SAFETY IOD MEDICAL EXPENSES - non-Free Cash | 100.0% | 0.0% | \$0 | \$0 | \$0 |
| UNEMPLOYMENT - non-Free Cash | 47.5% | 52.5% | \$200,000 | \$95,000 | \$105,000 |
| MEDICAL DISAB. | 100.0% | 0.0% | \$40,000 | \$40,000 | \$0 |
| MEDICARE PAYROLL TAX | 36.6% | 63.4% | \$2,609,403 | \$953,998 | \$1,655,405 |
| | TOTAL | | \$65,195,696 | \$36,766,171 | \$28,429,525 |
| FY19 PERSONNEL BENEFITS | TOTAIN 0/ | SCHOOL % | TOTAL | TOMAN | SCHOOL |
| PENSIONS - non-Free Cash | TOWN % 75.3% | 24.7% | | TOWN | \$5,650,067 |
| | | | \$22,874,765 | \$17,224,698 | |
| GROUP HEALTH | 42.7% | 57.3% | \$30,746,239 | \$13,132,771 | \$17,630,963 |
| HEALTH REIMBURSEMENT ACCOUNT (HRA) | 42.7% | 57.3% | \$0 | \$0 | \$0 \$2.276.003 |
| OPEB's (RETIREE HEA INS) - non-Free Cash | 42.7% | 57.3% | \$3,970,465 | \$1,695,921 | \$2,276,802 |
| EMPLOYEE ASSISTANCE | 40.0% | 60.0% | \$28,000 | \$11,200 | \$16,800 |
| GROUP LIFE | 100.0% | 0.0% | \$145,000 | \$145,000 | \$0 |
| DISABILITY INSURANCE | 100.0% | 0.0% | \$46,000 | \$46,000 | \$0 \$73,500 |
| WORKERS COMP - non-Free Cash | 95.0% | 5.0% | \$1,450,000 | \$1,377,500 | \$72,500 |
| PUBLIC SAFETY IOD MEDICAL EXPENSES - non-Free Cash | 100.0% | 0.0% | \$200,000 | \$200,000 | \$0 |
| UNEMPLOYMENT - non-Free Cash | 40.3% | 59.7% | \$200,000 | \$80,537 | \$119,463 |
| MEDICAL DISAB. | 100.0% | 0.0% | \$40,000 | \$40,000 | \$0 |
| MEDICARE PAYROLL TAX | 38.6% TOTAL | 61.9% | \$2,445,551 \$62,146,019 | \$944,558 \$34,898,186 | \$1,512,818 \$27,279,413 |
| | | | | | |

Increase in costs are allocated based on expected experience for the fiscal year.

TOWN OF **BROOKLINE FY2020** PROGRAM BUDGET

BUDGET MESSAGE





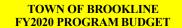
The Expenditures category of the Town's budget is comprised of six sections; Municipal Departments, the School Department, Non Departmental, Special Appropriations, Enterprises and Non-Appropriated. Overall, expenditures in the FY 2020 Budget are \$335,352,327, up by \$14,827,206 for an increase of 4.6% over FY 2019. FY 2020 represents Year 2 of a three-year tax override plan that was approved by Brookline's voters last May. Year 2 of the override plan allocates an additional \$3.3 million in property taxes to the School Department's budget. The following is a summary of the FY 2020 recommendations to each category of Expenditures.

MUNICIPAL DEPARTMENTS: The total amount of all municipal department budgets is recommended to be \$78,134,452 in FY 2020, or an increase of 2.5% over FY 2019. This amount includes a reserve to cover collective bargaining agreements with the Town's various municipal unions.

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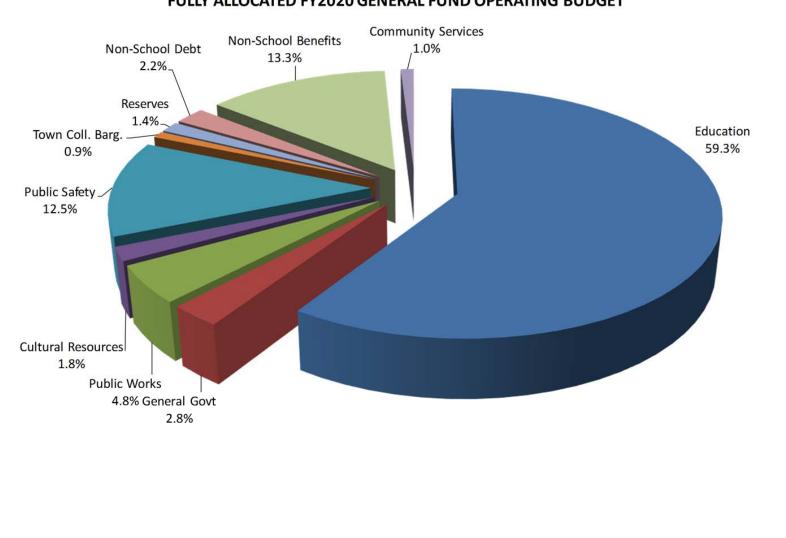
TOWN EXPENDITURES ON BEHALF OF SCHOOLS

| | | | | FY18 | | | | FY19 (est) |
|------------------------|-----------------|----------|----|---------------|-----------------|--|----|------------|
| Legal | | | \$ | 91,572 | | | \$ | 94,777 |
| Recreation | | | \$ | 289,794 | | | \$ | 299,937 |
| TOTAL | | | \$ | 381,366 | | | \$ | 394,714 |
| ** 1.1 | | | Ф | 07.100 | | | ф | 100 501 |
| Health | | | \$ | 97,180 | | | \$ | 100,581 |
| Personnel | | | \$ | 119,650 | | | \$ | 117,938 |
| Comptroller | | | \$ | 312,979 | | | \$ | 323,933 |
| Audit | | | \$ | 40,500 | | | \$ | 40,500 |
| Treasurer | | | \$ | 714,095 | | | \$ | 568,467 |
| General Services | | | \$ | 125,000 | | | \$ | 125,000 |
| Info Services | | | \$ | 961,447 | | | \$ | 995,098 |
| Purchasing | | | \$ | 237,021 | | | \$ | 245,317 |
| TOTAL | | | \$ | 2,510,692 | | | \$ | 2,416,252 |
| | | | | | | | | |
| Administrative Support | | | | - | | | | - |
| DPW | | | \$ | 1,744,267 | | | \$ | 1,805,316 |
| Police | | | \$ | 476,172 | | | \$ | 492,838 |
| Fire | | | \$ | 27,039 | | | \$ | 27,986 |
| Building | | | \$ | 4,835,928 | | | \$ | 5,011,121 |
| TOTAL | | | \$ | 7,083,406 | | | \$ | 7,337,261 |
| | | | | | | | | |
| General Insurance | | | \$ | 167,480 | | | \$ | 210,415 |
| | | | | | | | | |
| | FY18 Total Bdgt | School % | | | FY19 Total Bdgt | School % | | |
| Pensions | 21,199,185 | 24.45% | \$ | 5,183,201 | 22,874,765 | 24.70% | \$ | 5,650,067 |
| Group Health | 30,173,026 | 56.70% | \$ | 17,109,517 | 30,725,287 | 57.28% | \$ | 17,598,521 |
| HRA | 0 | 56.48% | \$ | - | 0 | 56.61% | \$ | - |
| Retiree G.H. | 3,880,080 | 56.61% | \$ | 2,196,596 | 3,970,465 | 57.34% | \$ | 2,276,802 |
| Life Insurance | 145,000 | 0.00% | \$ | - | 145,000 | 0.00% | \$ | - |
| Workers Comp | 1,450,000 | 5.00% | \$ | 72,500 | 1,450,000 | 5.00% | \$ | 72,500 |
| Unemployment Comp | 200,000 | 37.84% | \$ | 75,680 | 200,000 | 59.73% | \$ | 119,460 |
| Medicare Tax | 2,223,228 | 61.38% | \$ | 1,364,539 | 2,445,551 | 61.86% | \$ | 1,512,818 |
| EAP | 28,000 | 60.00% | \$ | 16,800 | 28,000 | 60.00% | \$ | 16,800 |
| TOTAL | | | \$ | 26,018,833 | | | \$ | 27,246,970 |
| Daineinel | | | Ф | 5 285 000 | | | d. | 6.220.000 |
| Principal | | | \$ | 5,285,000 | | | \$ | 6,230,000 |
| Interest | | | \$ | 2,569,203 | | | \$ | 3,783,491 |
| BAN's | | | \$ | 7.954.202 | | | \$ | 284,803 |
| TOTAL | | | \$ | 7,854,203 | | | \$ | 10,298,294 |
| GRAND TOTAL | | | \$ | 44,113,160 | | | \$ | 48,004,487 |
| | | | | MARINE MARINE | | The state of the s | | |



BUDGET MESSAGE

FULLY ALLOCATED FY2020 GENERAL FUND OPERATING BUDGET



TOWN-SCHOOL PARTNERSHIP

PERCEPTIONS, QUESTIONS, POSSIBLE FOCUS IDEAS

- Partnership perceived as opaque
 - It is opaque, seemingly simple yet complex. Unclear if results are 'unfair' as some believe.
 - Partnership calculations/information different than what is reported by Schools to DESE for Town spending on behalf of schools
 - Greater transparency is needed
- Does it work like the original MOU intended?
 - If not, how should it be modified/rewritten/reworked
- Underlying formulas should be examined (SPED costs [external/internal/in-house programs], enrollment growth, allocations of debt service, costs of new initiatives; are expenses accurately reflective of effort or do things 'even out over time'?)

TOWN-SCHOOL PARTNERSHIP

PERCEPTIONS, QUESTIONS, POSSIBLE FOCUS IDEAS

- A manual is need describing the details of mechanics
 - Definitions of terms
 - Formulas
- Should mechanisms be established to evaluate effectiveness of 'investments'?
 - Belong here or elsewhere in budget processes?
- What happens if/when enrollment growth reverses itself?
- Idea of possible claw-back or loans for \$ beyond 50/50 to be more dynamic?
- Has Town or Schools fallen behind re: maintenance of effort despite partnership.
 - Do new construction and new initiatives mean increased deferred maintenance and/or inability to maintain current levels of service.

Town-School Partnership 'Mechanics'

Guidelines for "splitting" future surplus/deficits have been developed which accomplish the following:

Allocates surpluses or deficits 50%/50% between Town and Schools, after deducting fixed costs from available revenues. Any future override funding is separate and distinct from this agreement and shall not affect the amount of funding to be allocated under this agreement.

Simplifies the definition of fixed costs by reducing the number of fixed cost variables to only seven categories: (i) enterprise type operations e.g. water/sewer, refuse; (ii) SPED Tuition, plus one half all other SPED costs; (iii) student enrollments (based on formula); (iv) reserve funds (v) programs generating new revenue; (vi) debt and interest; and (vii) tax funded capital. Items such as step adjustments, election costs, retirement administration will no longer be characterized as "fixed costs". The above fixed cost items (i through vii) shall be as customarily defined in the Financial Plan and as

Allocates other shared costs in proportion to actual experience each year. Such allocated costs shall include building, general services, information services, general insurance and personnel benefits.

Requires the Schools and Town to be totally responsible for absorbing all respective personnel costs. Collective bargaining agreements, steps, fringe benefits, etc., will be allocated and will no longer be considered "fixed costs".

I. S&P's Top 10 Management Characteristics

II. Town-School Partnership

III. Brookline Financial Forecast Model and Credit Ratios

How we are connecting Moody's Scorecard to BFAC forecasting model work

Moody's Major Credit Factors with weights*:

| Broad Rating Factors | Factor Weighting | Sub-Factors | Sub-Factor Weighting |
|----------------------|---------------------|--|-------------------------|
| Economy/Tax Base | 30% | Tax Base Size:Full Value | 10% |
| | | Full Value Per Capita | 10% |
| | | Socioeconomic Indices: MFI | 10% |
| Finances | 30% | Fund Balance as % of Revenues | 10% |
| | | 5-Year Dollar Change in Fund Balance as % of Revenues | 5% |
| | | Cash Balance as % of Revenues | 10% |
| | | 5-Year Dollar Change in Cash Balance as % of Revenues | 5% |
| Management | 20% | Institutional Framework | 10% |
| | | Operating History: 5-Year Average of Operating Revenues / Operating Expenditures | 10% |
| Debt/Pensions | 20% | Net Direct Debt / Full Value | 5% |
| | | Net Direct Debt / Operating Revenues | 5% |
| | | 3-Year Average of Moody's Adjusted Net Pension Liability / Full Value | 5% |
| | | 3-Year Average of Moody's Adjusted Net Pension Liability / Operating Revenues | 5% |

- Currently in process of tying numbers from Moody's ratios to town's audited financials (Balance Sheet, Income statement).
- Will take forecasting numbers and scenarios, track impact on balance sheet, and potential impact on credit factors and rating.

^{*}Source: Moody's Approach to Local Government Credit Analysis 2019, pp 17

Moody's Scorecard with Brookline data

| Credit Factors | Weight | BROOKLINE | Rating | Very Strong | Strong | Moderate | Weak | Poor | Very Poor |
|--|--------|--------------|--------|-------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|------------------------|
| | | (\$000) | | Aaa | Aa | Α | Ваа | Ва | B & Below |
| Economy/Tax Base (30%) | | | | | | | | | |
| Tax Base Size:Full Value | 10% | \$20,944,753 | AAA | > \$12B | \$12B ≥ n> \$1.4B | \$1.4B ≥ n >\$240M | \$240M ≥ n >\$120M | \$120M ≥ n >\$60M | <=\$60M |
| Full Value Per Capita | 10% | \$353,522 | AAA | >\$150,000 | \$150,000 ≥ n >\$65,000 | \$65,000 ≥ n > \$35,000 | \$35,000 ≥ n > \$20,000 | \$20,000 ≥ n > \$10,000 | <=\$10,000 |
| Socioeconomic Indices: MFI | 10% | 209.70% | AAA | > 150% of US median | 150% to 90% of US median | 90% to 75% of US median | 75% to 50% of US median | 50% to 40% of US median | <= 40% of US median |
| Finances (30%) | | | | | | | | | |
| Fund Balance as % of Revenues | 10% | 12.20% | AA | > 30% | 30% ≥ n > 15% | 15% ≥ n > 5% | 5% ≥ n > 0% | 0% ≥ n > 2.5% | ≤2.5% |
| | | | | > 25% for School Districts | 25% ≥ n> 10% for SD | 10% ≥ n> 2.5% for SD | 2.5% ≥ n> 0% for SD | % ≥ n> 2.5% for SD | ≤ -2.5% for SD |
| 5-Year Dollar Change in Fund Balance as % of Revenues | 5% | ? | AA? | >25% | 25%≥ n > 10% | 10% ≥ n > 0% | 0% ≥ n > -10% | -10% ≥ n > -18% | ≤ -18% |
| Cash Balance as % of Revenues | 10% | 15.90% | AAA | >25% | 25% ≥ n> 10% | 10% ≥ n > 5%. | 5% ≥ n > 0% | 0% ≥ n > -2.5% | ≤ -2.5°√ |
| | | | | >10% for School Districts | 10% ≥ n ≥ 5% for SD | 5% ≥ n> 2.5% for SD | 2.5% ≥ n> 0% for SD | 0% ≥ n> -2.5% for SD | ≤ 2.5% tcrSD |
| 5-Year Dollar Change in Cash Balance as % of Revenues | 5% | ? | AAA? | >25% | 25% ≥ n> 10% | 10% ≥ n > 0% | 0% ≥ n > -10% | -10% ≥ n > -1と% | 18% |
| Debt/Pensions (20%) | | | | | | | | | |
| Net Direct Debt / Full Value | 5% | 0.70% | AAA | <0.75% | 0.75% ≤ n < 1.75% | 1.75% ≤ n < 4% | 4% ≤ n < 10% | 1u % ≤ n < 15% | >15% |
| Net Direct Debt / Operating Revenues | 5% | 0.5x | AA | < 0.33x | $0.33x \le n < 0.67x$ | 0.67x ≤ n < 3x | 3x ≤ n < 5x | x ≤ n < 7x | >7x |
| 3-Year Average of Moody's Adjusted Net Pension Liability / Full Value | 5% | 2.10% | AA | < 0.9% | 0.9% ≤ n < 2.1% | 2.1% ≤ n < 4.8% | 4.8% < n < _?.′s | 12% ≤ n < 18% | >18% |
| 3-Year Average of Moody's Adjusted Net Pension Liability / Operating Revenues | 5% | 1.5x | А | < 0.4x | 0.4x ≤ n < 0.8x | 0.8x ≤ n < 3.6x | 3.F 、≤ n < 6x | 6x ≤ n < 8.4x | >8.4x |
| | | | | | | | | | |
| Management (20%) | | | | | | | | | |
| Institutional Framework: legal ability to match resources with spending | 10% | ? | AA? | Very strong | Strong | Moc 31c +e | Limited | Poor | Very Poor or None |
| Operating History: 5-Year Average of Operating Revenues / Operating Expenditures | 10% | ? (0.99) | A? | > 1.05x | 1.05x ≥ n > 1.02. | 1.0≥≥ n >0.98x | 0.98x ≥ n >0.95x | 0.95x ≥ n >0.92x | ≤0.92x |

Source:

Moody's Approach to Local Government Credit Analysis 2019, pp 18, Brookline June 2018 Audited Financial Statements Ratings in Blue Italics signify estimate, to be updated.

Appendix: Definition of Moody's Scorecard Factors

| Rating Factors | Definition/How Calculated |
|---|--|
| Economy/ Tax Base (30%) | |
| | Full value, i.e. the market value of taxable property accessible to the municipality. Often calculated as a |
| | multiple of assessed value, or the book value of properties on the tax rolls. Methods for calculating vary by |
| Total Full Value (\$000) | state. |
| Population | US Census Bureau |
| Full Value Per Capita | Calc, Full value divided by population |
| Median Family Income (% of US Median) | Median family income/ US median Income (source: American Community Survey) |
| Finances (30%) | |
| Operating Revenue (\$000) | Operating reveues |
| | Operating funds assets minus operating funds liabilities, adjusted for other resources or obligations that are |
| Fund Balance (\$000) | available for operating purposes) |
| Cash Balance (\$000) | Operating funds net cash (cash minus cash-flow notes) |
| | Operating funds assets minus operating funds liabilities, adjusted for other resources or obligations that are |
| Fund Balance as a % of Revenues | available for operating purposes) as a percentage of operating revenues |
| Cash Balance as a % of Revenues | Operating funds net cash (cash minus cash-flow notes) as a percentage of operating revenues |
| Debt/Pensions (20%) | |
| Net Direct Debt (\$000) | Gross debt minus self-supporting debt |
| | The average of Moody's-adjusted Net Pension Liability (as calculated in Appendix B) in each of the past |
| 3-Year Average of Moody's ANPL (\$000) | three years, as a percentage of full value |
| Net Direct Debt / Full Value (%) | Calc |
| Net Direct Debt / Operat ing Revenues (x) | Calc |
| Moody's - adjusted Net Pension Liability (3-yr average) to Full | |
| Value (%) | Calc |
| Moody's - adjusted Net Pension Liability (3-yr average) to | |
| Revenues (x) | Calc |